

CLAIMS

1. An image output calibrating system for cameras, comprising;
a camera including an imaging device placed on a focal plane of said camera;
5 a camera support for supporting said camera so as to direct said camera at a plurality of different angles;
an angle sensor for detecting an angular position of said camera;
a light source placed in front of said camera; and
a control unit for associating angular values produced from said angle sensor
10 with corresponding positions of an image of said light source on said imaging device.
2. An image output calibrating system according to claim 1, wherein said camera support comprises a fixed base, a pan table supported by said fixed base so as to be rotatable in a horizontal plane and a tilt table supported by said pan table so as to be
15 tiltable with respect to said pan table.
3. An image output calibrating system according to claim 1, further comprising a carriage unit adapted to move said light source in two different directions perpendicular to an optical center line of said camera.
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4. An image output calibrating system according to claim 3, wherein said carriage unit is adapted to move said light source in a direction parallel to said optical center line of said camera.
- 25 5. An image output calibrating system according to claim 1, wherein said light

source comprises a point-source light source.

6. An image output calibrating system according to claim 1, wherein said light source comprises a collimator lens.

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7. An image output calibrating system according to claim 2, wherein said control unit is adapted to associate a plurality of pan angles and tilt angles produced from said angle sensor with corresponding Cartesian coordinate values of said imaging device.

10 8. An image output calibrating system according to claim 1, wherein said light source comprises a plurality of light emitting elements that can emit light of different wavelengths or colors one after another.

9. An image output calibrating system according to claim 8, wherein said light
15 emitting elements are placed laterally one next to another, and are each incorporated with a collimator lens.

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